4 ***f* (*x*)**

4 ***f* (*x*)**

4 ***f* (*x*)**

**12.** *p*(*x*) = *x*2 – *x* + 2

**6.** 2*r* – *r*2 +

**State the degree and leading coefficient of each polynomial in one variable. If it is not a polynomial in one variable, explain why.**

**5-3**

**Skills Practice**

***Polynomial Functions***

**Lesson 5-3**

**For each graph,**

**a. describe the end behavior,**

**b. determine whether it represents an odd-degree or an even-degree function, and c. state the number of real zeroes.**

***O***

***O***

***O***

*Glencoe Algebra 2*

Chapter 5

**19**

–4

–4

–4

–2

–2

–2

4 ***x***

2

–2

–4

4 ***x***

2

–2

–4

4 ***x***

2

–2

–4

2

2

2

**21.**

**20.**

**19.**

**18.** *r*(*x* + 2)

**17.** *p*(*a*2)

**16.** –4*p*(*a*)

**15.** 3*r*(*a*)

**14.** *r*(2*a*)

**13.** *p*(*a*)

**If *p*(*x*) = 4*x*2 – 3 and *r*(*x*) = 1 + 3*x*, find each value.**

**11.** *p*(*x*) = *x*4 + 8*x*2 – 10

**10.** *p*(*x*) = –2*x*3 + 5*x* + 3

**9.** *p*(*x*) = 2*x*2 – 4*x* + 1

**8.** *p*(*x*) = 3*x* + *x*2

**7.** *p*(*x*) = 4 – 3*x*

**Find *p*(–1) and *p*(2) for each function.**

**2.** (2*x* – 1)(4*x*2 + 3)

**4.** 18 – 3*y* + 5*y*2 – *y*5 + 7*y*6

**1.** *a* + 8

**3.** –5*x*5 + 3*x*3 – 8

**5.** *u*3 + 4*u*2*t*2 + *t*4

NAME DATE PERIOD



